

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph starting at page 2, line 18 and ending at page 3, line 1 as follows.

However, according to the conventional print processing method as mentioned above, for example, if the user wants to print the print data in an irregular paper size represented by a system notebook or the like, since the maximum value and the minimum value of sizes which can be defined by the user (hereinafter, referred to as "user-defined sizes") are different for every printer, there is a problem such that the desired user-defined size of the user cannot be designated in dependence on a combination of a kind of printer and the user-defined size.

Please amend the paragraph starting at page 7, line 3 and ending at line 4 as follows.

Fig. 4 is a ~~diagram~~ schematic cross-sectional view showing a construction of a printer of the printer control system;

Please amend the paragraph starting at page 7, line 7 and ending at line 8 as follows.

Fig. 6 is a schematic diagram for explaining an example of a print setting picture plane in the host computer;

Please amend the paragraph starting at page 7, line 11 and ending at line 12 as follows.

Fig. 8 is a schematic diagram for explaining an example of data which is outputted by the spool file manager;

Please amend the paragraph starting at page 7, line 15 and ending at line 17 as follows.

Fig. 10 is a schematic diagram for explaining an example of a setting picture plane of a plural-page printing in the host computer;

Please amend the paragraph starting at page 7, line 18 and ending at line 20 as follows.

Fig. 11 is a schematic diagram for explaining an example of a page frame setting picture plane in the host computer;

Please amend the paragraph starting at page 7, line 21 and ending at line 23 as follows.

Fig. 12 is a schematic diagram for explaining an example of a duplex printing setting picture plane in the host computer;

Please amend the paragraph starting at page 7, line 24 and ending at line 26 as follows.

Fig. 13 is a schematic diagram for explaining an example of a user-defined paper size designation dialog picture plane in the host computer;

Please amend the paragraph starting at page 7, line 27 and ending at page 8, line 1 as follows.

Fig. 14 is a schematic diagram for explaining an example of a message picture plane in the host computer;

Please amend the paragraph starting at page 8, line 2 and ending at line 4 as follows.

Fig. 15 is a schematic diagram for explaining an example of a printer driver GUI picture plane in the host computer;

Please amend the paragraph starting at page 8, line 7 and ending at line 9 as follows.

Fig. 17 is a schematic diagram for explaining a positional relation of variables onto a paper in the automatic layout process;

Please amend the paragraph starting at page 8, line 10 and ending at line 13 as follows.

Figs. 18A, 18B, 18C, 18D and 18E are schematic diagrams for explaining a layout of logical pages for a print order and a paper direction in an N-up printing in the automatic layout process; and

Please amend the paragraph starting at page 14, line 1 and ending at line 4 as follows.

For example, it is also possible to provide [[the]] NVRAM (not shown) and allow printer mode information or the like set by the operation unit 301 to be stored into the NVRAM.

Please amend the paragraph starting at page 14, line 19 and ending at line 23 as follows.

That is, the application 221, graphic engine 222, printer driver 223 and system spooler 224 are ~~constructing~~ constructive portions for embodying functions of the embodiment by being loaded into the RAM 202 and executed by the CPU 201 as necessary.

Please amend the paragraph starting at page 15, line 9 and ending at line 14 as follows.

The graphic engine 222 loads the printer driver 223 prepared for every printer (printer driver corresponding to the printer 300 here) into the RAM 202 from the external memory 211 and sets output information of the application 221 into the printer driver 223.

Please amend the paragraph starting at page 16, line 19 and ending at line 24 as follows.

In the construction shown in Fig. 2, the timing when the application 221 is released from the printing process is ~~[[a]]~~ the point ~~[[of]]~~ in time when the printer driver 223 has finished converting all print commands from the graphic engine 222 into control commands of the printer 300.

Please amend the paragraph starting at page 16, line 25 and ending at page 17, line 4 as follows.

On the other hand, in the construction shown in Fig. 3, the timing when the application 221 is released from the printing process is set to ~~[[a]]~~ the point ~~[[of]]~~ in time when the spooler 232 ~~have~~ has converted all of the print commands into intermediate code data and outputted them as print data to the spool file 233, thereby shortening the processing time.

Please amend the paragraph starting at page 17, line 5 and ending at line 12 as follows.

In the construction shown in Fig. 3, the print data stored in the spool file 233 can be processed. Thus, functions which the application 221 does not have can be realized. ~~For example;~~ Examples of such functions include a function such that the print data outputted from

the application 221 is magnified or reduced and printed, a function such that a plurality of pages of the print data are reduced and printed onto one page, and the like.

Please amend the paragraph starting at page 17, line 13 and ending at line 17 as follows.

To realize the construction as mentioned above, in the construction shown in Fig. 3, an expanding process for spooling all of the print commands by the intermediate code data is performed ~~[[to]]~~ by the construction shown in Fig. 2.

Please amend the paragraph starting at page 18, line 17 and ending at line 20 as follows.

Although the spool file 233 has been generated as a file into the external memory 211, the invention is not limited to it. For example, it can be also generated ~~[[on]]~~ in the RAM 202.

Please amend the paragraph starting at page 20, line 1 and ending at line 2 as follows.

Fig. 4 shows a construction of the duplex printing function ~~which~~ of the printer 300 ~~[[has]]~~.

Please amend the paragraph starting at page 20, line 3 and ending at line 5 as follows.

In Fig. 4, for example, the printer 300 is a color laser printer and ~~[[its]]~~ a cross sectional view thereof is illustrated.

Please amend the paragraph starting at page 21, line 21 and ending at line 26 as follows.

In a scanner unit 30, the modulated laser beam is reflected by the polygon mirror which is rotated by a motor 31a synchronously with a horizontal sync signal of the image signal and ~~irradiated onto~~ irradiates the photosensitive drum 15 through a lens 32 and a reflecting mirror 33.

Please amend the paragraph starting at page 21, line 27 and ending at page 22, line 6 as follows.

In order to form a visible image from the electrostatic latent image formed on the photosensitive drum 15, the developing unit has: three color developing units 20Y, 20M and 20C for developing the images of the colors yellow (Y), magenta (M) and cyan (C); and one black developing unit 21B for developing ~~[[the]]~~ a black image ~~of black~~ (B).

Please amend the paragraph starting at page 22, line 7 and ending at line 12 as follows.

The color developing units 20Y, 20M and 20C and the black developing unit 21B are provided with: sleeves 20YS, 20MS, 20CS and 21BS; and coating blades 20YB, 20MB, 20CB and 21BB which ~~[[are]]~~ come into pressure contact with outer peripheries of the sleeves 20YS, 20MS, 20CS and 21BS, respectively.

Please amend the paragraph starting at page 22, line 15 and ending at line 19 as follows.

The black developing unit 21B is detachably attached to the printer 300 main body. The color developing units 20Y, 20M and 20C are detachably attached to a developing rotary unit 23 which rotates around a rotary axis 22 as a center, respectively.

Please amend the paragraph starting at page 23, line 7 and ending at line 16 as follows.

Each of the color developing units 20Y, 20M and 20C is rotated in association with the rotation of the developing rotary unit 23 upon image formation. In this instance, a predetermined one of the sleeves 20YS, 20MS and 20CS faces the photosensitive drum 15 at a micro interval of about 300 μm . Thus, a predetermined one of the color developing units 20Y, 20M and 20C is stopped at the developing position which faces the photosensitive drum 15, thereby forming the visible image onto the photosensitive drum 15.

Please amend the paragraph starting at page 23, line 17 and ending at page 24, line 1 as follows.

Upon color image formation, the developing rotary unit 23 is rotated every rotation of the intermediate transfer material 9. Developing steps are sequentially executed in order of the color developing unit 20Y (yellow developing unit), the color developing unit 20M (magenta developing unit), the color developing unit 20C (cyan developing unit) and the black developing unit 21B. The intermediate transfer material 9 is rotated four times and the visible images by the yellow, magenta, cyan, and black toner are sequentially formed, so that a full color visible image is formed on the intermediate transfer material 9.

Please amend the paragraph starting at page 24, line 2 and ending at line 8 as follows.

The intermediate transfer material 9 ~~is come~~ comes into contact with the photosensitive drum 15 and is rotated in association with the rotation of the photosensitive drum 15. Upon color image formation, the intermediate transfer material 9 is rotated clockwise and the visible

images are multiplexed and transferred onto the material 9 four times from the photosensitive drum 15.

Please amend the paragraph starting at page 24, line 9 and ending at line 16 as follows.

Upon image formation, the transfer roller 10, which will be explained hereinlater, ~~is come~~ comes into contact with the intermediate transfer material 9 and the transfer material 2 is sandwiched therebetween and conveyed, so that the color visible image on the intermediate transfer material 9 is simultaneously multiplexed and transferred onto the transfer material 2.

Please amend the paragraph starting at page 25, line 2 and ending at line 17 as follows.

While the color visible image is being multiplexed and transferred onto the intermediate transfer material 9, the transfer roller 10 is ~~away~~ positioned downwardly away from the material 9 so as not to disturb the color visible image. After the color visible images of four colors are formed onto the intermediate transfer material 9, the transfer roller 10 is ~~located~~ moved upward by a cam member (not shown) in accordance with the timing for transferring the color visible image onto the transfer material 2. Thus, the transfer roller 10 ~~is come~~ comes into pressure contact with the intermediate transfer material 9 with a predetermined suppressing force through the transfer material 2. A bias voltage is applied to the transfer roller 10. The color visible image on the intermediate transfer material 9 is transferred onto the transfer material 2.

Please amend the paragraph starting at page 40, line 16 and ending at line 22 as follows.

~~Explanation~~ An explanation will now be made with respect to a construction such that in the printer control system 100 as mentioned above, for example, in case of printing a plurality of pages in the user-defined size, the page number is also drawn on the reverse side in consideration of a page frame (cutting) and, further, the page frame is drawn only on the reverse side.

Please amend the paragraph starting at page 46, line 4 and ending at line 5 as follows.

The CPU 201 discriminates whether the processing target page is the obverse side or the reverse side.

Please amend the paragraph starting at page 46, line 6 and ending at line 8 as follows.

In case of the obverse side as a result of the discrimination, step S1608 follows. In case of the reverse, step S1612 follows.

Please amend the paragraph starting at page 46, line 10 and ending at line 15 as follows.

Whether a frame line is added to the reverse side or not is discriminated on the basis of the set value of the item 1102 on the page frame setting picture plane 1100 in Fig. 11. If NO as a result of the discrimination, step S1609 follows. If YES, step S1610 follows.

Please amend the paragraph starting at page 46, line 17 and ending at line 24 as follows.

If the frame line is added to each of the reverse side and the obverse side as a result of the discrimination in step S1608, the CPU 201 instructs the operation to the printer 300 so as to draw

odd-number logical page data into each layout area (divisional area) on the obverse side, draw a frame in accordance with a drawing setting of the frame, and further, draw a frame line so as to show the paper size.

Please amend the paragraph starting at page 47, line 7 and ending at line 14 as follows.

In case of the reverse side as a result of the discrimination in step S1607, the CPU 201 instructs the operation to the printer 300 so as to draw the even-number logical page data into each layout area (divisional area) on the reverse side, draw a frame in accordance with the drawing setting of the frame, and further, draw a frame line so as to show the paper size.

Please amend the paragraph starting at page 50, line 21 and ending at line 22 as follows.

The CPU 201 discriminates whether the processing target page is the obverse side or the reverse side.

Please amend the paragraph starting at page 50, line 23 and ending at line 25 as follows.

In case of the obverse side as a result of the discrimination, step S1908 follows. In case of the reverse, step S1910 follows.

Please amend the paragraph starting at page 50, line 27 and ending at page 51, line 6 as follows.

In case of the obverse side as a result of the discrimination in step S1907, the CPU 201 instructs the printer 300 to operate so as to draw logical page data into each layout area

(divisional area) on the obverse side, draw a frame in accordance with a drawing setting of the frame, and further, draw a frame line so as to show the paper size.

Please amend the paragraph starting at page 51, line 11 and ending at line 16 as follows.

In case of the reverse side as a result of the discrimination in step S1907, the CPU 201 instructs the operation to the printer 300 so as to draw a frame onto the reverse side in accordance with the drawing setting of the frame, and further, draw a frame line so as to show the paper size.

Please amend the paragraph starting at page 51, line 20 and ending at line 25 as follows.

The invention can be applied to a system comprising a plurality of apparatuses (for example, a host computer, an interface device, a reader, a printer and the like) or to an apparatus (a copying machine, a printer, a facsimile apparatus, or the like) comprising one piece of equipment.